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SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER	
			2616		
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## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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		Application No.	Applicant(s)	<i>O</i> N
		10/611,333	ODENWALDER	ET AL.
Office Action	Summary	Examiner	Art Unit	T
		Chandrahas Patel	2616	
	of this communication app	pears on the cover shee	et with the correspondence a	ddress
WHICHEVER IS LONGER  - Extensions of time may be available after SIX (6) MONTHS from the may  - If NO period for reply is specified a  - Failure to reply within the set or ex	c, FROM THE MAILING Down of 37 CFR 1.1 siling date of this communication. bove, the maximum statutory period vended period for reply will, by statute or than three months after the mailing	ATE OF THIS COMMI 36(a). In no event, however, m will apply and will expire SIX (6) c, cause the application to becor	ay a reply be timely filed  MONTHS from the mailing date of this ne ABANDONED (35 U.S.C. § 133).	
Status			•	
1) Responsive to comm	nunication(s) filed on 16 S	eptember 2005.	•	
2a) ☐ This action is FINAL		action is non-final.		
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Disposition of Claims				
4)⊠ Claim(s) <u>1-44</u> is/are 4a) Of the above clai 5)□ Claim(s) is/ar 6)⊠ Claim(s) <u>1-7 and 10</u> 7)⊠ Claim(s) <u>8 and 9</u> is/a 8)□ Claim(s) are s	m(s) is/are withdrawe e allowed. <u>-44</u> is/are rejected. are objected to.	wn from consideration		
Application Papers			~ .	
9) The specification is o	bjected to by the Examine	er.	•	
10)⊠ The drawing(s) filed o	on <u>30 June 2003</u> is/are: a	)⊠ accepted or b)□ o	objected to by the Examiner	
Applicant may not requ	est that any objection to the	drawing(s) be held in ab	eyance. See 37 CFR 1.85(a).	
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Priority under 35 U.S.C. § 11	9			
<ul><li>2. Certified copie</li><li>3. Copies of the application from</li></ul>	c) None of: es of the priority document es of the priority document	s have been received s have been received rity documents have b u (PCT Rule 17.2(a)).	in Application No een received in this Nationa	ıl Stage
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Attachment(s)  1)   Notice of References Cited (PT			iew Summary (PTO-413)	
<ol> <li>Notice of Draftsperson's Patent</li> <li>Information Disclosure Stateme Paper No(s)/Mail Date <u>11/15/20</u></li> </ol>	ent(s) (PTO/SB/08)		No(s)/Mail Date  of Informal Patent Application  :	

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#### **DETAILED ACTION**

### Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

# Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 7, it is not clear which encoder segments the encoding time since there are 2 encoders in claim 1. Also, it is not clear which encoding time is applicant segmenting since in claim 1 there is no description of time encoding.

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### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1, 2, 4, 5, 7, 10, 14, 15, 17, 19, 21, 22, 25-28, 30, 32, 35, 37, 39, 41, 43 are rejected under 35 U.S.C. 102(b) as being anticipated by Tiedemann, Jr. et al. (USPN 5,914,950, Herein as Tiedemann).

Regarding claims 1, 17, 21, Tiedemann teaches an apparatus, a wireless communication device, a wireless communication system, including a first wireless device, respectively [Fig. 5, 74] comprising: a first encoder for receiving a plurality of symbol streams and encoding each of the symbol streams with one of a plurality of covering sequences to form a plurality of covered sequences [Fig. 5, 146, 148]; a summer for summing the plurality of covered sequences to form a first Code Division Multiplexed (CDM) signal [Fig. 5, 170, 168]; and a second encoder for covering the first CDM signal with a covering sequence to form a first covered CDM signal [Fig. 5, 174].

Regarding claim 2, Tiedemann teaches one or more channel gain blocks for receiving a plurality of gain values [Col. 25, lines 28-31] and multiplying the plurality of covered sequences by the plurality of gain values, respectively, prior to delivery to the summer [Fig. 5, 160, 162, 166].

Regarding claim 4, Tiedemann teaches a transmitter for receiving the first covered CDM signal and one or more additional covered signals [Fig. 5, 74 is part of transmitter as shown in

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Fig. 2], combining the first covered CDM signal and the one or more additional covered signals to form a combined CDM signal [Fig. 5, 180], and transmitting the combined CDM signal to a remote station [Fig. 2, antenna (60) transmits the signal (52) from 74 through 62].

Regarding claim 5, Tiedemann teaches a third encoder for receiving a second plurality of symbol streams and encoding each of the symbol streams with the plurality of covering sequences to form a second plurality of covered sequences [Fig. 5, 172, second symbols are covered with LONG PN CODE]; a second summer for summing the second plurality of covered sequences to form a second Code Division Multiplexed (CDM) signal [Fig. 5, 176]; a fourth encoder for covering the second CDM signal with a covering sequence to form a second covered CDM signal [Fig. 5, 178]; and a transmitter for transmitting the first covered CDM signal on an in-phase channel and the second covered CDM signal on a quadrature channel [Fig. 2, antenna (60) transmits signal (52) from 74 through 62, Y<sub>I</sub> and Y<sub>Q</sub> are in-phase and quadrature channel].

Regarding claim 7, Tiedemann teaches the encoder segments the encoding time into two or more segments and covers each of the plurality of symbol streams with two or more sequences [Col. 25, lines 31-34, each segment is segmented into BPSK<sub>1</sub> QPSK<sub>1</sub> and QPSK<sub>2</sub> and covered by unique Walsh code], each sequence for covering during the two or more segments, respectively, and the sequence covering each symbol stream during a segment being unique to the respective symbol stream [Col. 25, lines 34-37].

Regarding claim 10, Tiedemann teaches each sequence is assigned in a time varying manner [Col. 24, lines 38-42].

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Regarding claims 14, 19 Tiedemann teaches an apparatus and a wireless communication device [Fig. 2, 4], operable with a CDM signal, covered with a first covering sequence, comprising one or more sub-CDM signals, each of the one or more sub-CDM signals comprising a plurality of symbol sequences covered by a second plurality of covering sequences [Fig. 2, 52 is the CDM signal formed as described earlier in this claim also described in Fig. 5], respectively, the apparatus comprising: a receiver for receiving the CDM signal [Fig. 2, 4]; a first despreader for despreading the received CDM signal with the first covering sequence to produce a despread CDM signal [Fig. 2, 40, Col. 7, lines 14-16]; and a second despreader for despreading the despread CDM signal with one of the second covering sequences to produce a recovered symbol sequence [Col. 7, lines 16-23].

Regarding claim 15, Tiedemann teaches the second despreader despreads the despreaded CDM signal with one or more additional second covering sequences to produce one or more additional recovered symbol sequences [Col. 7, lines 16-23].

Regarding claim 22, Tiedemann teaches a receiver for receiving the CDM signal [Fig. 2, 4]; a first despreader for despreading the received CDM signal with the first covering sequence to produce a despread CDM signal [Fig. 2, 40, Col. 7, lines 14-16]; and a second despreader for despreading the despread CDM signal with one of the second covering sequences to produce a recovered symbol sequence [Col. 7, lines 16-23].

Regarding claims 25 and 41, Tiedemann teaches a method of multiplexing plurality of symbol streams [Col. 24, lines 1-2] and processor readable media, operable to perform the following steps [Col. 9, lines 2-6] comprising: covering each of a plurality of symbol streams with one of a plurality of covering sequences to form a plurality of covered sequences [Fig. 5,

146, 148]; summing the plurality of covered sequences to form a first CDM signal [Fig. 5, 170, 168]; and covering the first CDM signal with a covering sequence to form a first covered CDM signal [Fig. 5, 174].

Regarding claim 26, Tiedemann teaches multiplying the plurality of covered sequences by a plurality of gain values, respectively, prior to delivery to the summer [Fig. 5, 160, 162, 166].

Regarding claim 27, Tiedemann teaches combining the first covered CDM signal and the one or more additional covered signals to form a combined CDM signal [Fig. 5, 180], and transmitting the combined CDM signal to one or more remote stations [Fig. 2, antenna (60) transmits the signal (52) from 74 through 62].

Regarding claim 28, Tiedemann teaches covering each of a second plurality of symbol streams with one of the plurality of covering sequences to form a second plurality of covered sequences [Fig. 5, 172, second symbols are covered with LONG PN CODE]; summing the second plurality of covered sequences to form a second CDM signal [Fig. 5, 176]; covering the second CDM signal with a covering sequence to form a second covered CDM signal [Fig. 5, 178]; transmitting the first covered CDM signal on an in-phase channel; and the second covered CDM signal on a quadrature channel [Fig. 2, antenna (60) transmits signal (52) from 74 through 62, Y<sub>I</sub> and Y<sub>O</sub> are in-phase and quadrature channel].

Regarding claim 30, Tiedemann teaches segmenting the encoding time into two or more segments; covering each of the plurality of symbol streams with two or more sequences [Col. 25, lines 31-34, each segment is segmented into BPSK<sub>1</sub> QPSK<sub>1</sub> and QPSK<sub>2</sub> and covered by unique Walsh code], each sequence for covering during the two or more segments, respectively,

and the sequence covering each symbol stream during a segment being unique to the respective symbol stream [Col. 25, lines 34-37].

Regarding claim 32, Tiedemann teaches two or more sequences are assigned in a time varying manner [Col. 24, lines 38-42].

Regarding claims 35 and 43, Tiedemann teaches a method of decoding symbol sequence [Col. 7, lines 13-15] and processor readable media, operable to perform the following steps [Col. 9, lines 2-6], comprising: receiving a CDM signal [Fig. 2, 4]; despreading the received CDM signal with a first covering sequence [Fig. 2, 40, Col. 7, lines 14-16]; and despreading the despreaded received CDM signal with a second covering sequences to produce a recovered symbol sequence [Col. 7, lines 16-23].

Regarding claim 37, Tiedemann teaches an apparatus [Fig. 5, 74] comprising: means for covering each of a plurality of symbol streams with one of a plurality of covering sequences to form a plurality of covered sequences [Fig. 5, 146, 148]; means for summing the plurality of covered sequences to form a first CDM signal [Fig. 5, 170, 168]; and means for covering the first CDM signal with a covering sequence to form a first covered CDM signal [Fig. 5, 174].

Regarding claim 39, Tiedemann teaches an apparatus [Fig. 5, 74] comprising: means for receiving a CDM signal [Fig. 2, 4]; means for despreading the received CDM signal with a first covering sequence [Fig. 2, 40, Col. 7, lines 14-16]; and means for despreading the despreaded received CDM signal with a second covering sequences to produce a recovered symbol sequence [Col. 7, lines 16-23].

7. Claims 11, 13, 16, 18, 20, 23, 24, 33, 34, 36, 38, 40, 42, 44 are rejected under 35 U.S.C. 102(b) as being anticipated by Schilling et al. (USPN 6,061,359, Herein as Schilling).

Regarding claims 11, 18, 23, Schilling teaches an apparatus and a wireless communication device, a wireless communication system, including a wireless communication device, respectively [Fig. 3] comprising: a plurality of CDM encoders for receiving a plurality of symbol streams and producing a plurality of covered CDM signals [Fig. 3], each CDM encoder comprising: a first encoder for receiving the plurality of symbol streams and encoding each of the symbol streams with one of a plurality of covering sequences to form a plurality of covered sequences [Fig. 3, 51, 52, 58, 151, 152, 158]; a summer for summing the plurality of covered sequences to form a CDM signal [Fig. 3, 45, 145]; a time multiplexer for receiving the plurality of covered CDM signals and forming a Time Division Multiplexed (TDM) signal comprising the plurality of covered CDM signals [Fig. 3, 46, 146, Col. 4, lines Col. 4, lines 7-16]; and a second encoder for covering the TDM signal with a covering sequence to form a covered TDM/CDM signal [Fig. 3, 48, 148].

Regarding claim 13, Shilling teaches a transmitter for receiving the covered TDM/CDM signal and one or more additional covered signals [Fig. 3, 67], combining the covered TDM/CDM signal and one or more additional covered signals to form a combined CDM signal [Fig. 3, 52], and transmitting the combined CDM signal to a remote station [Fig. 3, 60].

Regarding claims 16 and 20, Shilling teaches an apparatus and a wireless communication device [Fig. 4], operable with a CDM signal, covered with a first covering sequence, comprising one or more TDM signals, each of the one or more TDM signals comprising one or more sub-CDM signals, each of the one or more sub-CDM signals comprising

a plurality of symbol sequences covered by a second plurality of covering sequences, respectively [Fig. 4, antenna 77 receives signal as coded by Fig. 3, the signal is described earlier in this claim], the apparatus comprising: a receiver for receiving the CDM signal [Fig. 4]; a first despreader for despreading the received CDM signal with the first covering sequence to produce a despread CDM signal [Fig. 4, 62, Col. 20, lines 7-18]; a demultiplexer for selecting one of the TDM signals from the despread CDM signal [Col. 20, lines 7-18, where each signal is TDM multiplexed as described previously in the document and 63 despreads the signals into in-phase and a quadrature-phase components which selects a TDM signal]; and a second despreader for despreading the selected TDM signal with one of the second covering sequences to produce a recovered symbol sequence [Col. 20, lines 19-23, 36-39, header-match filter is for TDM demodulating (described in Col. 4, lines 7-16), and data match filter selects the TDM signal to be despreaded].

Regarding claim 24, Shilling teaches a receiver for receiving the TDM/CDM signal [Fig. 4]; a first despreader for despreading the received TDM/CDM signal with the first covering sequence to produce a despread CDM signal [Fig. 4, 62, Col. 20, lines 7-18]; a demultiplexer for selecting one of the TDM signals from the despread CDM signal [Col. 20, lines 7-18, where each signal is TDM multiplexed as described previously in the document and 63 despreads the signals into in-phase and a quadrature-phase components which selects a TDM signal]; and a second despreader for despreading the selected TDM signal with one of the second covering sequences to produce a recovered symbol sequence [Col. 20, lines 19-23, 36-39, header-match filter is for TDM demodulating (described in Col. 4, lines 7-16), and data match filter selects the TDM signal to be despreaded].

Regarding claims 33 and 42, Shilling teaches a method of multiplexing plurality of symbol streams [Abstract] and processor readable media, operable to perform the following steps [Col. 1, lines 54-57], comprising: covering each of a plurality of symbol streams with one of a plurality of covering sequences to form a plurality of covered sequences [Fig. 3, 51, 52, 58, 151, 152, 158]; summing subsets of the plurality of covered sequences to form a plurality of CDM signals [Fig. 3, 45, 145]; time division multiplexing the plurality of CDM signals and form a TDM signal; and covering the first TDM signal with a covering sequence to form a covered TDM/CDM signal [Fig. 3, 48, 148].

Regarding claim 34, Shilling teaches combining the covered TDM/CDM signal and one or more additional covered signals [Fig. 3, 52]; and transmitting the combined CDM signal to one or more remote station [Fig. 3, 60].

Regarding claims 36 and 44, Shilling teaches a method of decoding a symbol sequence [Abstract] and processor readable media, operable to perform the following steps [Col. 1, lines 54-57], comprising: receiving a CDM signal [Fig. 4]; despreading the received CDM signal with a first covering sequence [Fig. 4, 62, Col. 20, lines 7-18]; time demultiplexing the despreaded received CDM signal to select a TDM signal [Col. 20, lines 7-18, where each signal is TDM multiplexed as described previously in the document and 63 despreads the signals into inphase and a quadrature-phase components which selects a TDM signal]; and despreading the selected TDM signal with a second covering sequences to produce a decoded symbol sequence [Col. 20, lines 19-23, 36-39, header-match filter is for TDM demodulating (described in Col. 4, lines 7-16), and data match filter selects the TDM signal to be despreaded].

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Regarding claim 38, Shilling teaches an apparatus [Fig. 4], comprising: means for covering each of a plurality of symbol streams with one of a plurality of covering sequences to form a plurality of covered sequences [Fig. 3, 51, 52, 58, 151, 152, 158]; means for summing subsets of the plurality of covered sequences to form a plurality of CDM signals [Fig. 3, 45, 145]; means for time division multiplexing the plurality of CDM signals and form a TDM signal; and means for covering the first TDM signal with a covering sequence to form a covered TDM/CDM signal [Fig. 3, 48, 148].

Regarding claim 40, Shilling teaches an apparatus [Fig. 4], comprising: means for receiving a CDM signal [Fig. 4]; means for despreading the received CDM signal with a first covering sequence [Fig. 4, 62, Col. 20, lines 7-18]; means for time demultiplexing the despreaded received CDM signal to select a TDM signal [Col. 20, lines 7-18, where each signal is TDM multiplexed as described previously in the document and 63 despreads the signals into in-phase and a quadrature-phase components which selects a TDM signal]; and means for despreading the selected TDM signal with a second covering sequences to produce a decoded symbol sequence [Col. 20, lines 19-23, 36-39, header-match filter is for TDM demodulating (described in Col. 4, lines 7-16), and data match filter selects the TDM signal to be despreaded].

### Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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9. Claims 3, 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tiedemann, Jr. et al. (USPN 5,914,950, Herein as Tiedemann) in view of Agrawal et al. (USPN 6,134,215, Herein as Agrawal).

**Regarding claim 3**, Tiedemann teaches an apparatus as discussed in rejection of claim 1. However, Tiedemann does not teach using Hadamard encoders.

Agrawal teaches using Hadamard encoders [Col. 5, lines 18-19].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Hadamard encoders to encode the symbol streams so that the codes can be used repeatedly [Col. 5, lines 19-27].

**Regarding claim 31**, Tiedemann teaches a method as discussed in rejection of claim 30. However, Tiedemann does not teach using Hadamard sequences.

Agrawal teaches using Hadamard sequences [Col. 5, lines 18-19].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Hadamard sequences so that the codes can be used repeatedly [Col. 5, lines 19-27].

10. Claims 6, 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tiedemann, Jr. et al. (USPN 5,914,950, Herein as Tiedemann) in view of Kanterakis et al. (USPN 6,389,056, Herein as Kanterakis).

Regarding claims 6 and 29, Tiedemann teaches plurality of symbol streams comprises command values indicating acknowledgement [Col. 8, lines 32-38].

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However, Tiedemann does not teach command values also indicate negative acknowledgement, or acknowledge and continue.

Kanterakis teaches command values also indicate negative acknowledgement, or acknowledge and continue [Col. 13, lines 42-50].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have command values also indicate negative acknowledgement, or acknowledge and continue so that transmission can be stopped or continued [Col. 13, lines 42-50].

11. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schilling et al. (USPN 6,061,359, Herein as Schilling) in view of Tiedemann, Jr. et al. (USPN 5,914,950, Herein as Tiedemann).

Regarding claim 12, Shilling teaches an apparatus as discussed in rejection of claim 11.

However, Schilling does not teach each encoder has one or more channel gain blocks for receiving a plurality of gain values and multiplying the plurality of covered sequences by the plurality of gain values, respectively, prior to delivery to the summer.

Tiedemann teaches encoder has one or more channel gain blocks for receiving a plurality of gain values [Col. 25, lines 28-31] and multiplying the plurality of covered sequences by the plurality of gain values, respectively, prior to delivery to the summer [Fig. 5, 160, 162, 166].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include gain blocks for signals before delivering the signals to summer so that the amplitude according to gain could be adjusted [Col. 25, lines 39-43].

## Allowable Subject Matter

12. Claims 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chandrahas Patel whose telephone number is 571-270-1211. The examiner can normally be reached on Monday through Thursday 7:30 to 17:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**CBP** 

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